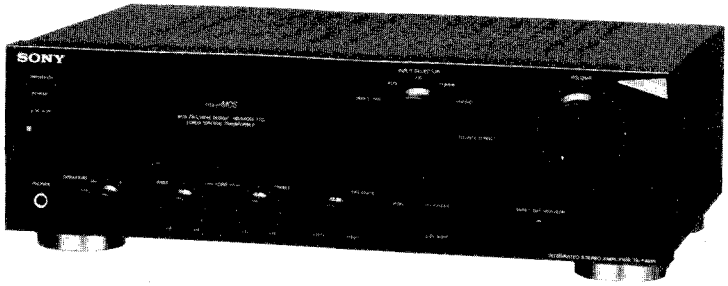
TA-F461R

SERVICE MANUAL

AEP Model



SPECIFICATIONS

Amplifier

Power output (both channels driven simultaneously)

DIN, 1 kHz	4 ohms	70 W + 70 W
	8 ohms	55 W + 55 W
20 Hz – 20 kHz	8 ohms	45 W + 45 W

Input

Input jack	Jack type	Sensitivity	Impedance
PHONO	Phono	2.5 mV	50 kilohms
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	Phono	150 mV	20 kilohms

S/N

PHONO A, 5 mV	80 dB
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	105 dB

Output

Output jack	Jack type	Output level/impedance
REC OUT	Phono jack	Voltage 150 mV Impedance 1 kilohm
SPEAKERS	—	4 – 16 ohms SPEAKERS A + B: 8 – 16 ohms
PHONES	Stereo phone jack	10 mW (at 8 ohms) Accepts low and high impedance headphones

Tone controls

	Response	Turnover frequency
BASS	±7 dB (100 Hz)	300 Hz
TREBLE	±7 dB (10 kHz)	3 kHz

Harmonic distortion — Less than 0.025 % at 10 W output

Intermodulation (IM) distortion (60 Hz : 7 kHz = 4:1) — Less than 0.025 % at 10 W output

Frequency response — PHONO: RIAA equalization curve ±0.5 dB
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD: 7 Hz – 100 kHz $^{+0}_{-3}$ dB

Residual noise — Less than 170 µV (network A)

Damping factor — 60 (8 ohms, 1 kHz)

General

System — Preamplifier: Low-noise, equalizer amplifier
Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled

Power requirements — 220 V – 230 V AC, 50/60 Hz

Power consumption — 170 W

Dimensions — Approx. 430 × 135 × 315 mm (w/h/d) (17 × 5 $^{3}/_{8}$ × 12 $^{1}/_{2}$ inches)

Mass — Approx. 5.6 kg (12 lb 6 oz)

Supplied accessories — Remote commander RM-S312 (1)
Sony SUM-3 (NS) batteries (2)

The above values are measured at 230 V AC.

Design and specifications are subject to change without notice.

MICROFILM

INTEGRATED STEREO AMPLIFIER

SONY®

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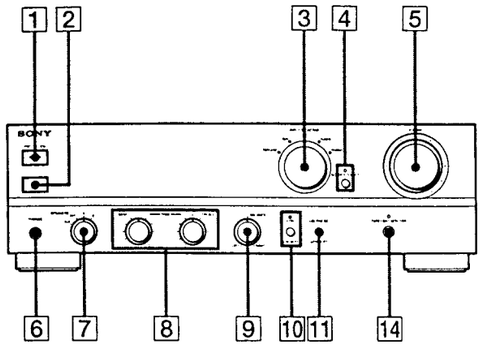
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Front Panel



1 POWER switch and PROTECTION indicator
Immediately after turning on the POWER switch, the PROTECTION indicator flashes, then goes off.

2 Remote control sensor

3 INPUT SELECTOR and indicators

4 SOURCE DIRECT button and indicator

5 VOLUME control

6 PHONES jack

7 SPEAKERS selector

8 TONE (BASS/TREBLE) controls

9 BALANCE control

10 EON button and indicator

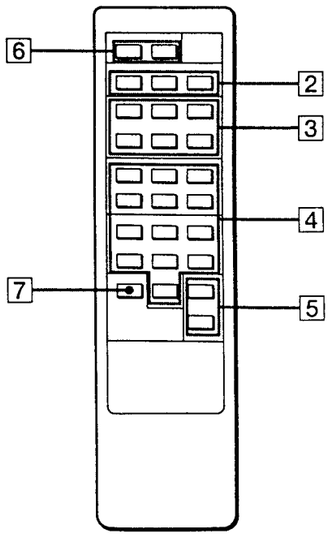
11 LOUDNESS button

14 TAPE 1/DAT MONITOR button and indicator

Remote Commander

Supplied remote commander can control Sony equipment such as tuner, CD players, and tape decks.

RM-S312



2 TUNER operation buttons
TUNER: Select the TUNER mode.
PRESET +/– buttons: Select the preset station.

3 CD operation buttons
⏮/⏭: Automatic music sensor.
D. (Disc) SKIP: Disc skip (for CD player equipped with a multi-disc changer)
►: The amplifier enters the CD mode and the CD player starts playback automatically.
■: Stop.
❚❚: Pause.

4 TAPE 2 DECK A/DECK B operation buttons
◄◄/►►: Fast winding.
■: Stop.
◄: The amplifier enters the TAPE 2 mode and the tape deck starts reverse playback automatically.
►: The amplifier enters the TAPE 2 mode and the tape deck starts forward playback automatically.
● + ►: Start recording
● + ◄: Start recording in the reverse direction
❚❚: Pause. (Only for DECK B)

5 VOL (Volume) +/– buttons

6 PHONO operation buttons
START: Pressing START automatically selects the PHONO mode on the amplifier and starts playback of the turntable system.
STOP: Stops playback of the turntable system.

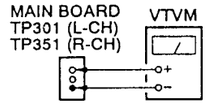
7 DAT/TAPE 1 button
Selects the DAT or TAPE 1 mode.

SECTION 2
ELECTRICAL ADJUSTMENT

Note:
1. DC BIAS adjustments should be made within 2 to 3 minutes after the POWER switch is turned on (POWER ON).
2. After replacing the power transistors, DC BIAS adjustments should be made.

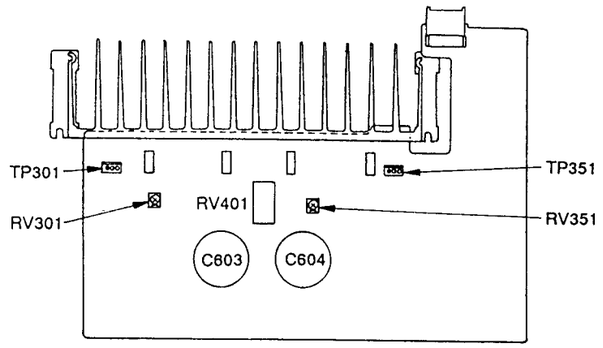
DC Bias Adjustment (with no signal Input)

Procedure:



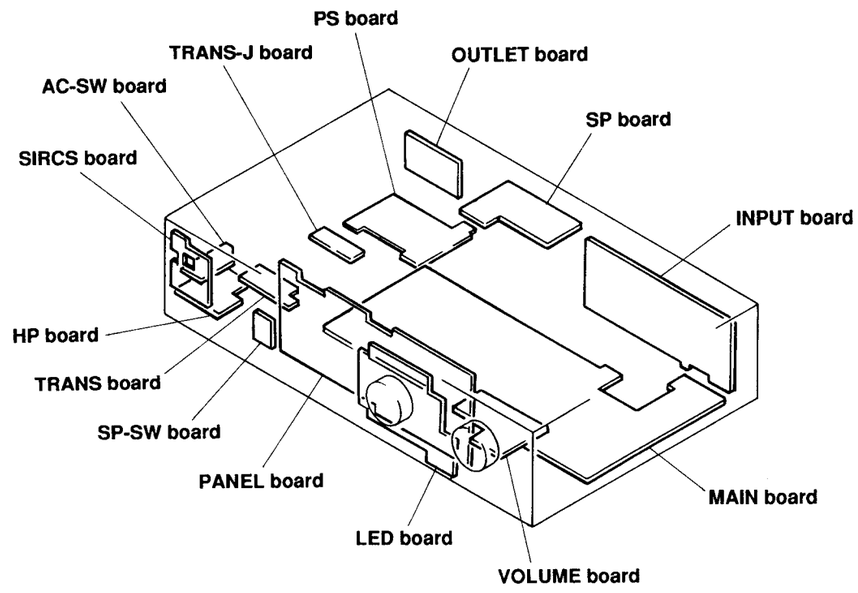
	Adjustment part	Reading on VTVM
L-CH	RV301	20 mV
R-CH	RV351	20 mV

[ADJUSTMENT LOCATIONS]



SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. IC
• IC70

Pin No
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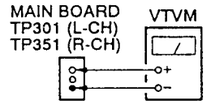
SECTION 2
ELECTRICAL ADJUSTMENT

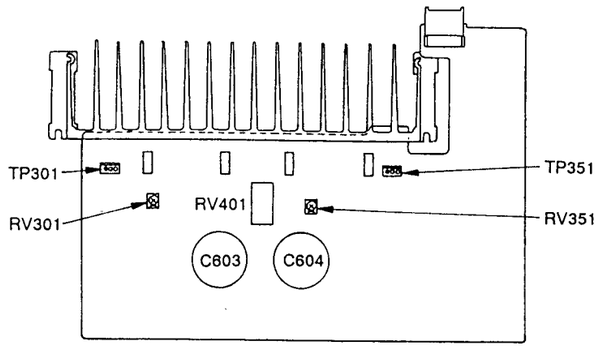
Note:
1. DC BIAS adjustments should be made within 2 to 3 minutes after the POWER switch is turned on (POWER ON).
2. After replacing the power transistors, DC BIAS adjustments should be made.

DC Bias Adjustment (with no signal input)
Procedure:



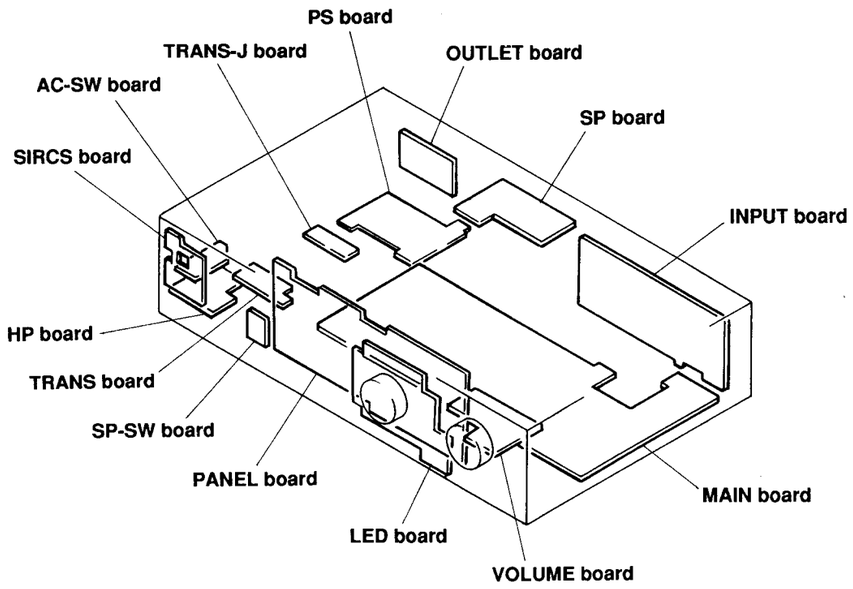
	Adjustment part	Reading on VTVM
L-CH	RV301	20 mV
R-CH	RV351	20 mV

[ADJUSTMENT LOCATIONS]



SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. IC PIN FUNCTION

- **IC701 TMP47C200BN**

Pin No.	Pin Name	I/O	Function
1	RCL	O	Clock } Serial data of EEPROM. (X24C01)
2	RDT	I/O	Data }
3	VUP	O	Up } VR motor control signal. (Active: H, Stop: L-L, Brake: H-H)
4	VDW	O	Down }
5	PRY	O	Not used.
6	MUT	O	Mute Control signal output when switching. (Mute: H)
7	LED	O	LED display signal. (L: Function LED is turned on.)
8	94/95	I	SIRCS decode/mode switching signal. (Pull down to GND.)
9	——	I	} Not used. (Pull down to GND.)
10	——	I	}
11	0	I	} Relativity position detection signal of rotary switch. (One of them terminal: L, the other terminal: H) Direction from 5 to 0, TUNER → CD → AUX → TAPE2/MD → PHONO → TUNER →·····
12	1	I	}
13	2	I	}
14	3	I	}
15	4	I	}
16	5	I	}
17	PHONO	O	} Function LED drive signal. (ON: L)
18	TUNER	O	}
19	CD	O	}
20	AUX	O	}
21	GND	–	GND terminal.
22	TAPE2	O	} Function LED drive signal. (ON: L)
23	TAPE1	O	}
24	VOLLED	O	Not used. (Pull down to GND.)
25	STANBY	O	Standby LED drive signal. (ON: L)
26	PW KEY	I	Power ON/OFF signal. (SW ON: L)
27	T1 KEY	I	Monitor ON/OFF signal. (SW ON: L)
28	——	I	Not used. (Pull down to GND.)
29	F3/F5	I	Model mode switch signal. (Pull down to GND.)
30	TEST		Test terminal. (Open)
31	XIN	–	} Oscillation signal 8MHz.
32	XOUT	–	}
33	RESET	I	Reset signal. (Reset: L)
34	HOLD	I	Cancellation of hold mode signal. (Start: H)
35	PROTECT	I	Protector detection signal. (Active: H)
36	EON	I	EON detection signal. (Switch to TUNER, when H to L.)
37	SIRCS	I	SIRCS signal. (Active: L)
38	T1	O	Relay control.
39	SCE	O	Chip Enable } Serial control signal to TC9173.
40	SDT	O	Data }
41	SCK	O	Clock }
42	+5V	–	Power supply (+5V) terminal.

3-3. PRINTED WIRING BOARD — MAIN SECTION —

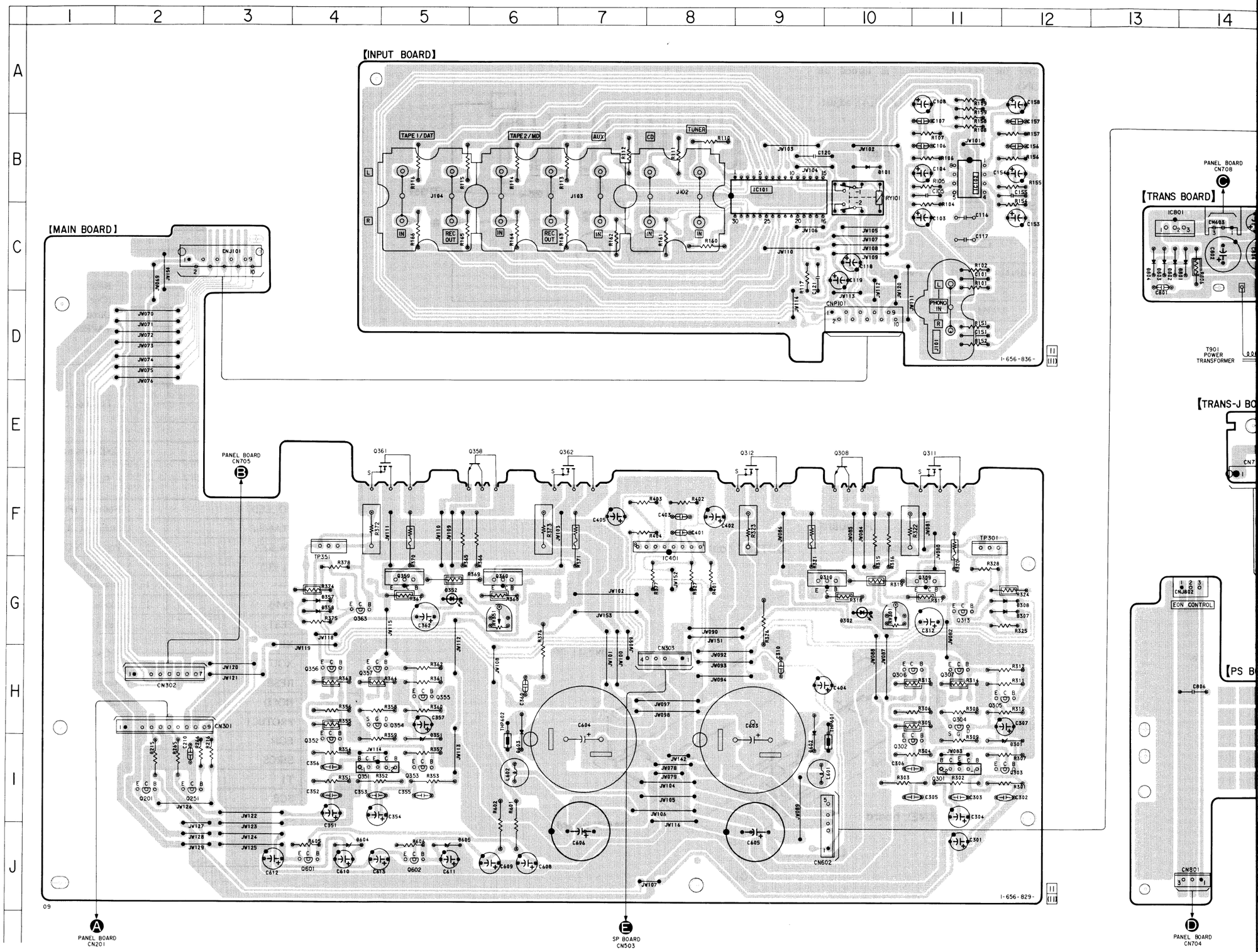
• See page 4 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D101	B-10
D301	H-12
D302	G-10
D307	G-12
D308	G-12
D351	H-5
D352	G-5
D357	G-4
D358	G-4
D401	C-16
D601	C-15
D602	H-9
D603	H-6
D604	J-4
D605	J-5
D801	C-13
D802	C-13
D803	C-13
D804	C-13
IC101	B-9
IC102	B-11
IC401	F-8
IC801	C-13
Q201	I-2
Q251	I-2
Q301	I-11
Q302	H-11
Q303	I-12
Q304	H-11
Q305	H-12
Q306	H-11
Q307	H-11
Q308	E-10
Q309	G-11
Q310	G-10
Q311	E-11
Q312	E-9
Q313	G-11
Q351	I-4
Q352	H-4
Q353	I-5
Q354	H-4
Q355	H-5
Q356	H-4
Q357	H-4
Q358	E-6
Q359	G-5
Q360	G-6
Q361	E-5
Q362	E-7
Q363	G-4
Q601	J-4
Q602	J-5

Note:

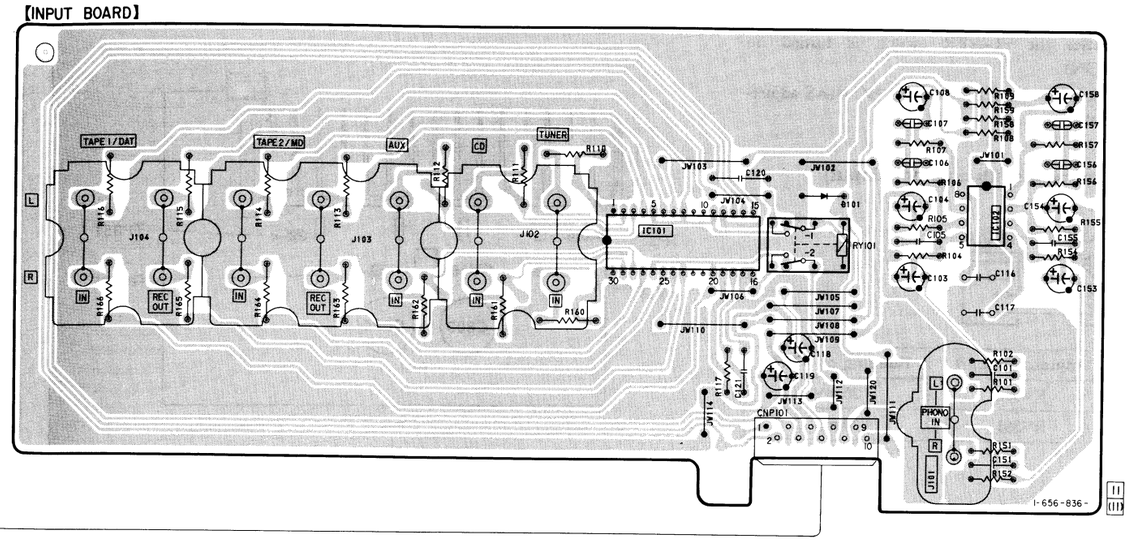
- ⟜—— : parts extracted from the component side.
- ▒▒ : Pattern from the side which enable seeing.

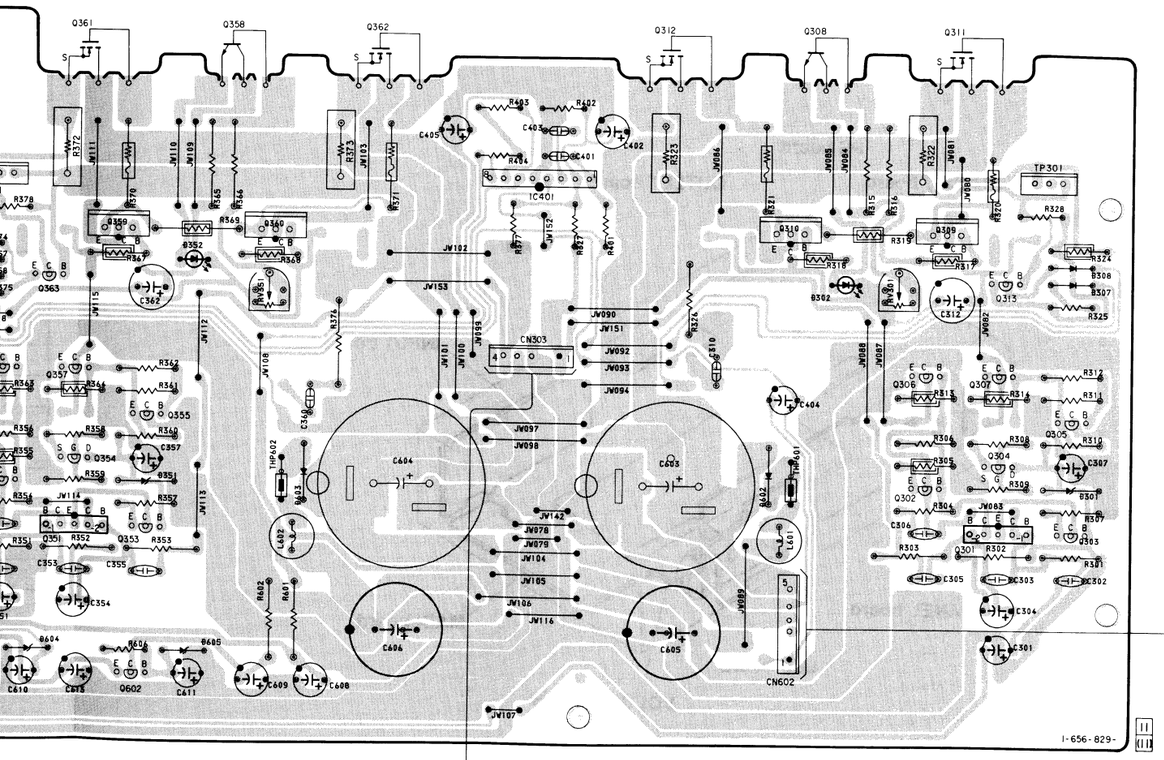


ECTION —
on.

4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21

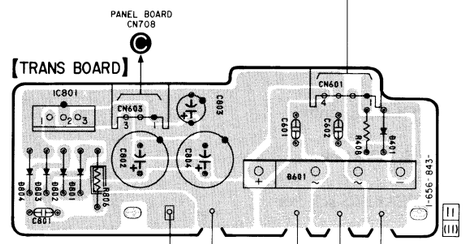
【INPUT BOARD】



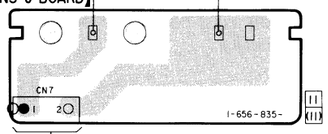


SP BOARD
CN503

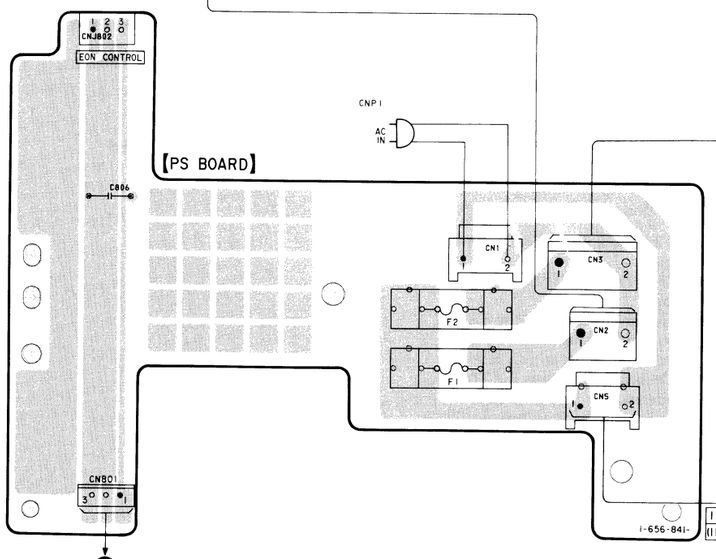
【TRANS BOARD】



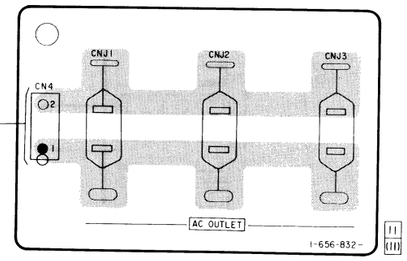
【TRANS-J BOARD】



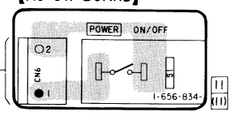
【PS BOARD】



【OUTLET BOARD】

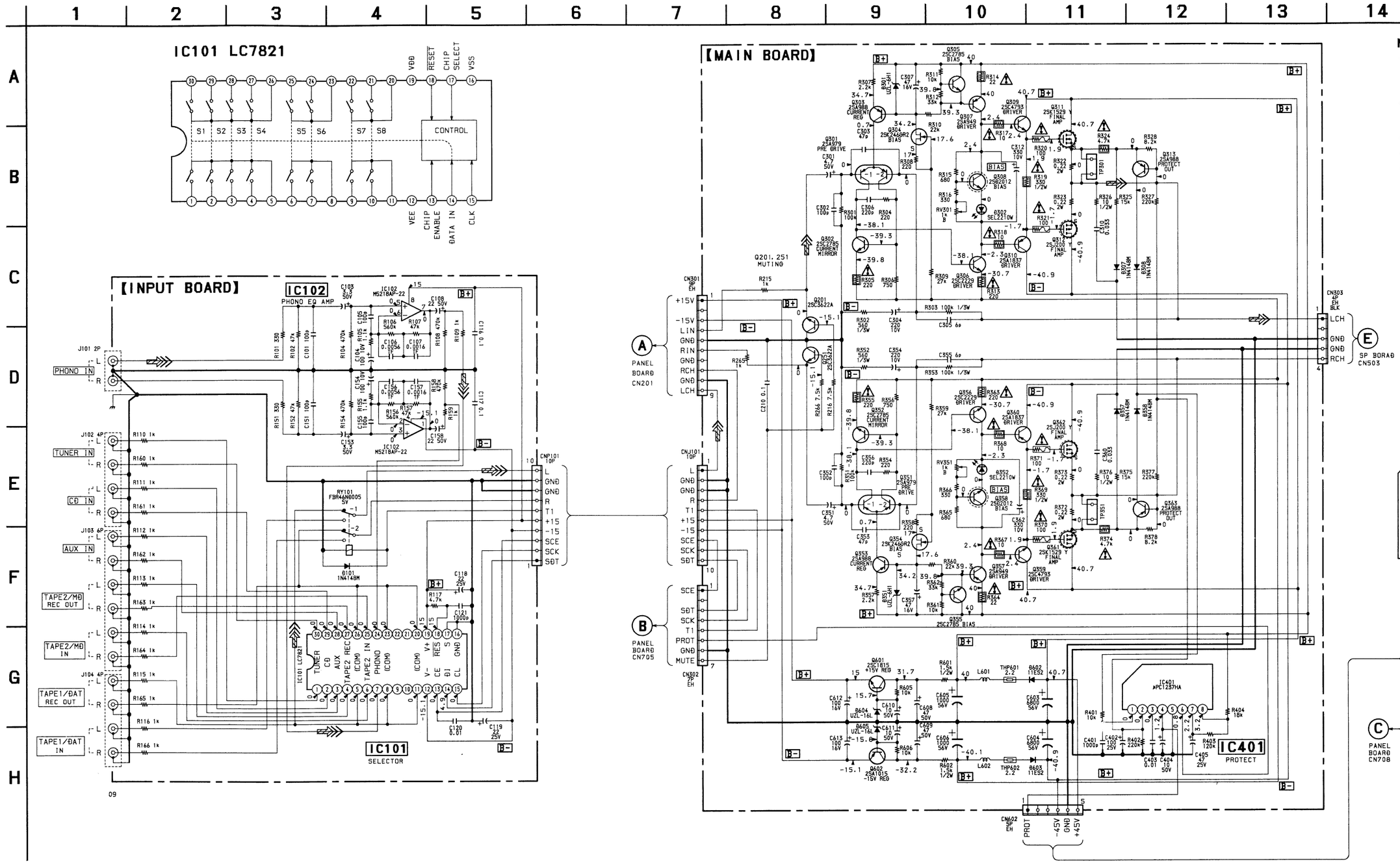


【AC-SW BOARD】



PANEL BOARD
CN704

3-4. SCHEMATIC DIAGRAM — MAIN SECTION —

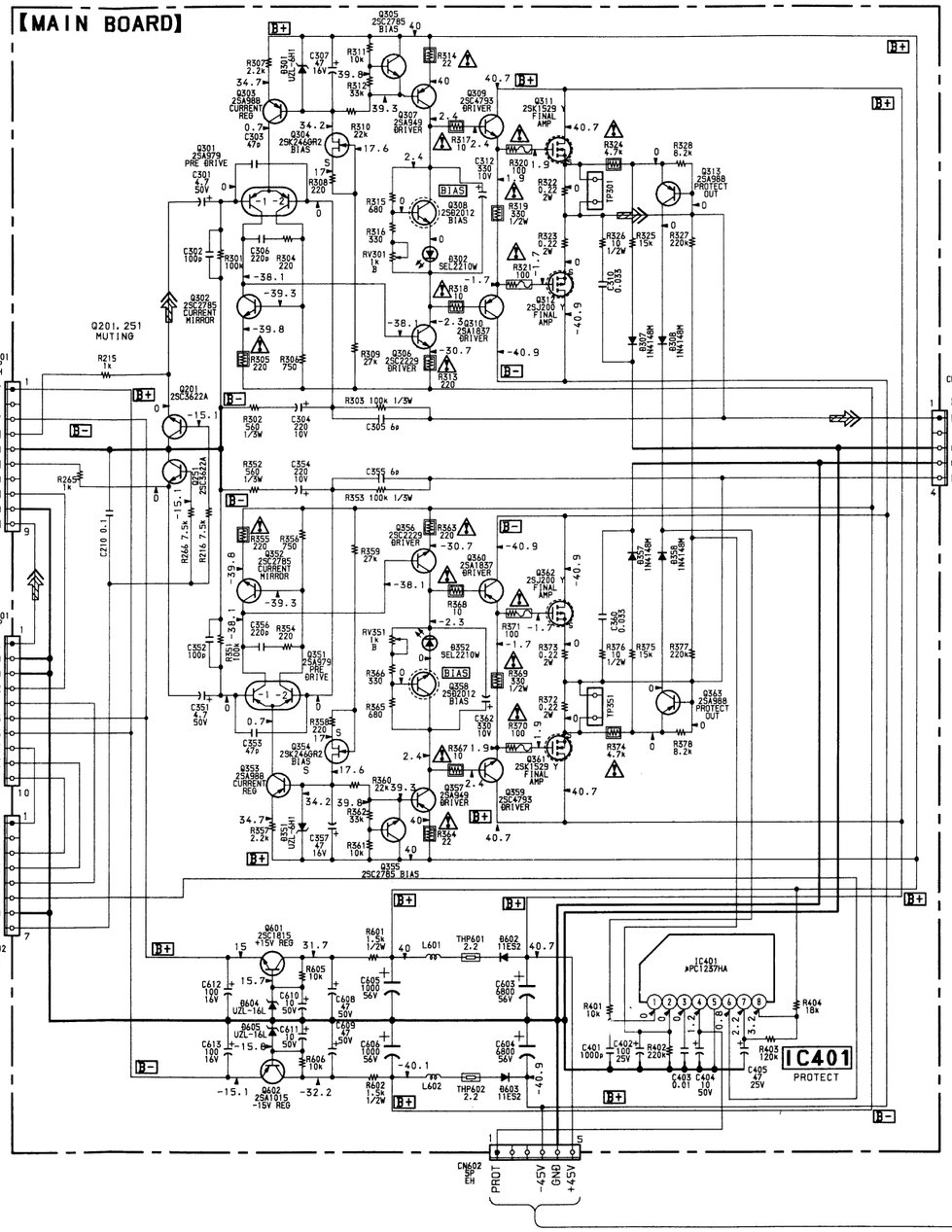


NOTE

- All capacitors are in μF unless other
  50WV or less are not indicated except
  and tantalums.
- All resistors are in Ω and 1/4W or le
  specified.
- :nonflammable resistor.
- :fusible resistor.
- :panel designation.

Note: The components identified by mar
line with mark ⚠ are critical f
Replace only with part number sp

7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22



NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- :nonflammable resistor.
- :fusible resistor.
- :panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ :B+ Line.
- B- :B- Line.
- :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. :PHONO

3-5. PRINTED WIRING BOARD — PANEL SECTION —

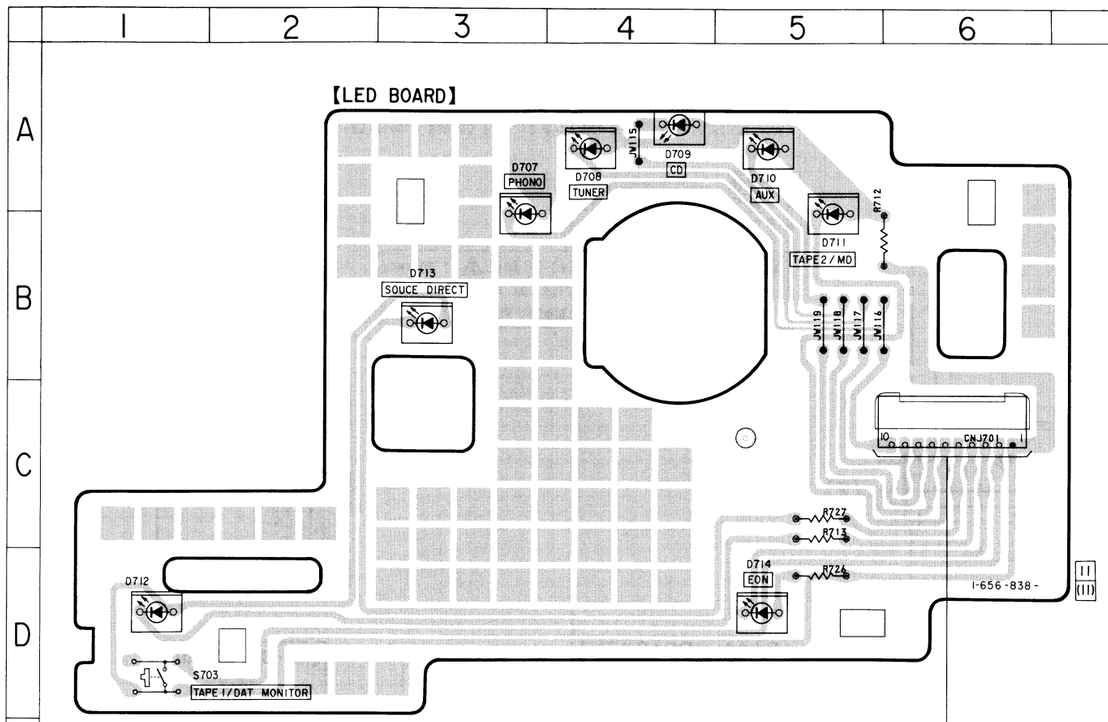
• See page 4 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D501	A-9
D502	A-9
D503	B-10
D701	G-8
D702	G-8
D703	G-8
D704	G-7
D705	G-7
D706	G-7
D707	B-3
D708	A-4
D709	A-4
D710	A-5
D711	B-5
D712	D-1
D713	B-3
D714	D-5
D715	H-14
D716	F-5
D718	F-5
D719	F-6
D720	F-5
D721	F-10
D722	F-6
D723	F-5
IC701	F-8
IC702	G-9
IC703	G-10
IC704	E-5
IC705	H-13
Q202	F-1
Q702	E-1
Q703	G-10
Q704	F-6
Q705	F-6
Q706	H-5
Q707	F-10
Q708	F-10
Q804	G-6
Q805	G-7

Note:

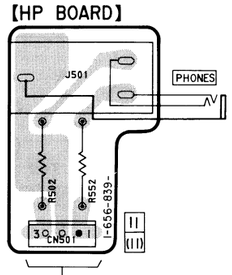
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enable seeing.



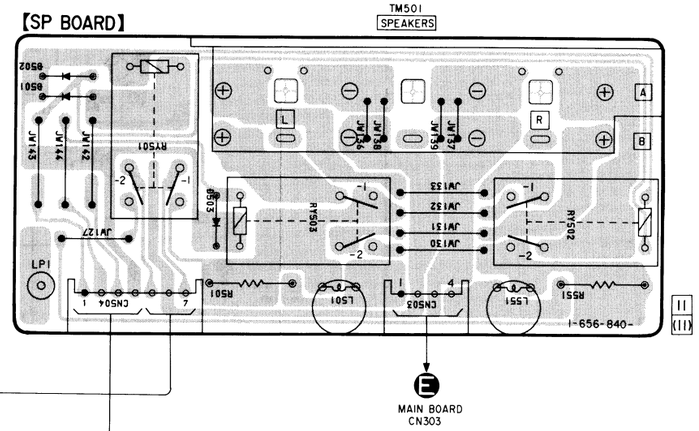
SECTION —
n.

4 5 6 7 8 9 10 11 12 13 14 15 16 17

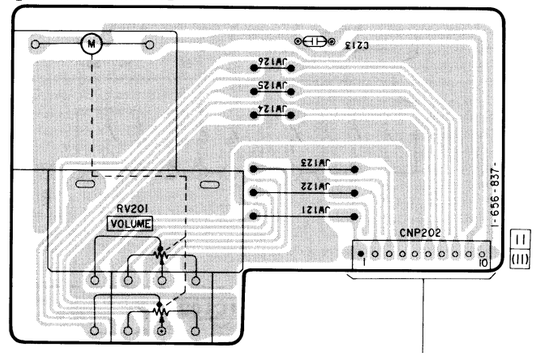
【HP BOARD】

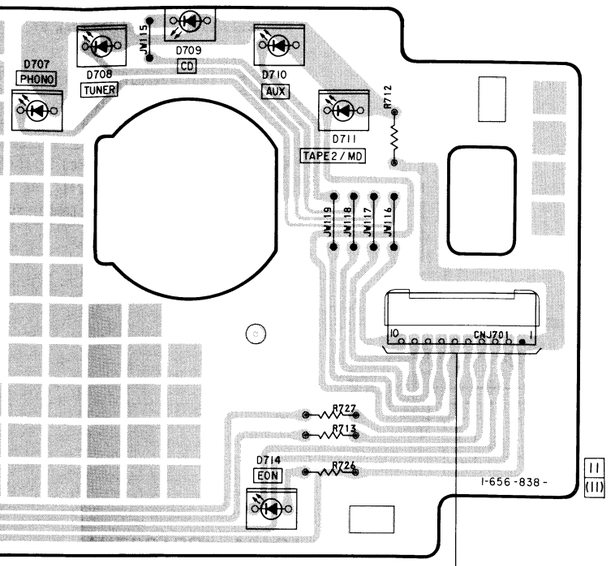


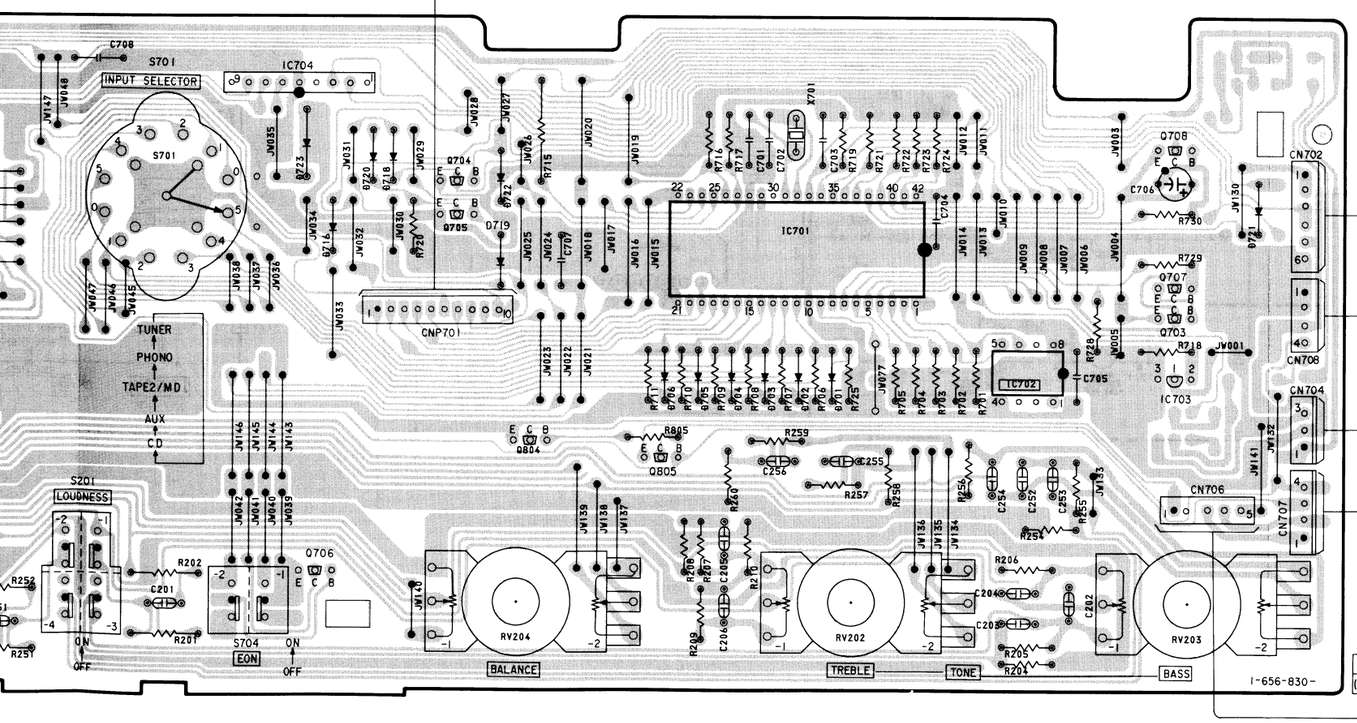
【SP BOARD】



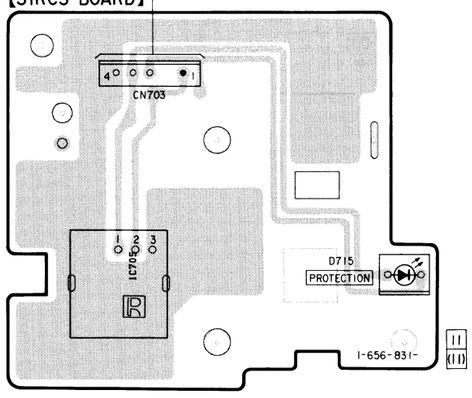
【VOLUME BOARD】



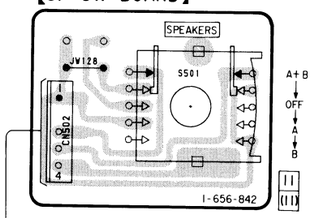




【SIRCS BOARD】

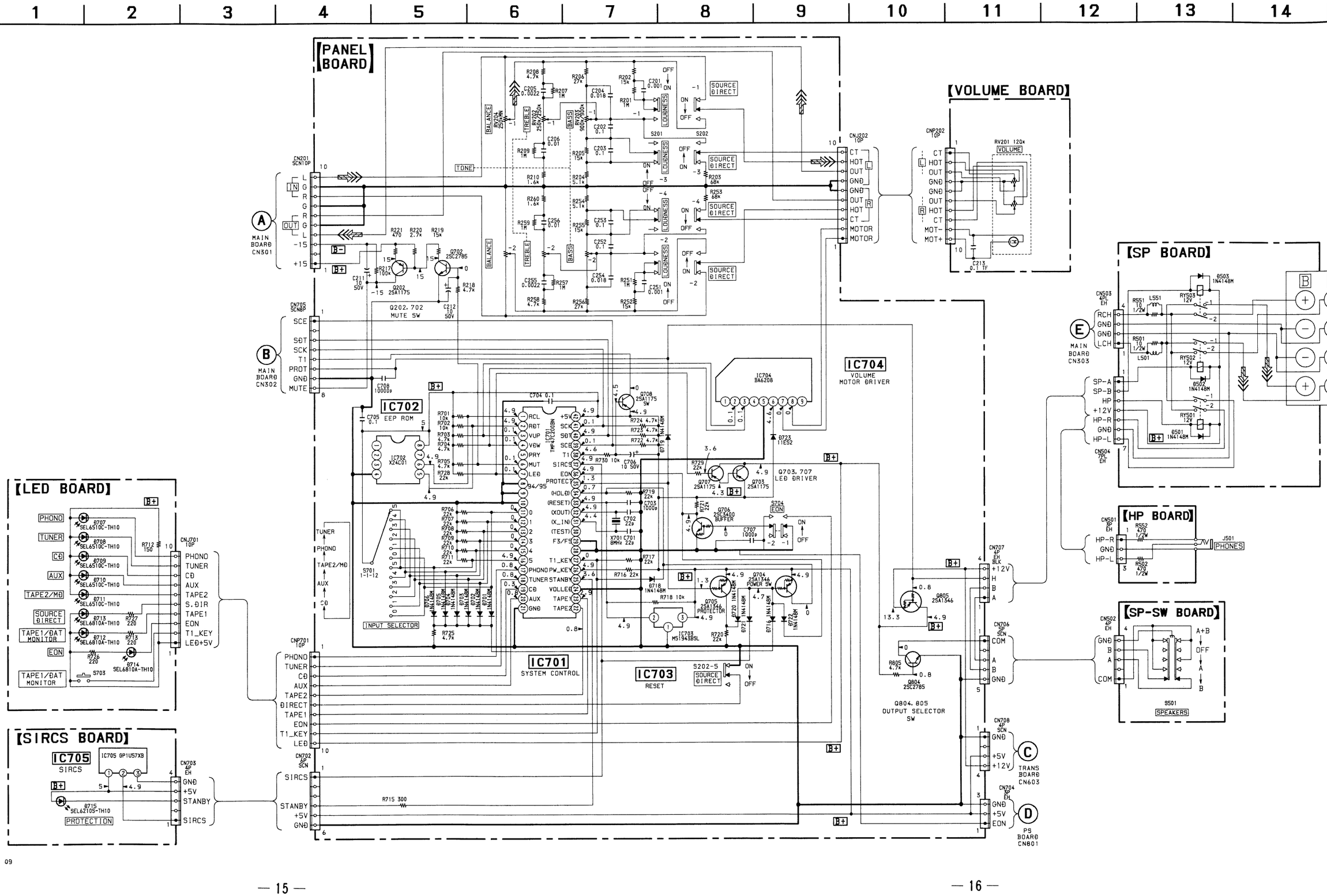


【SP-SW BOARD】



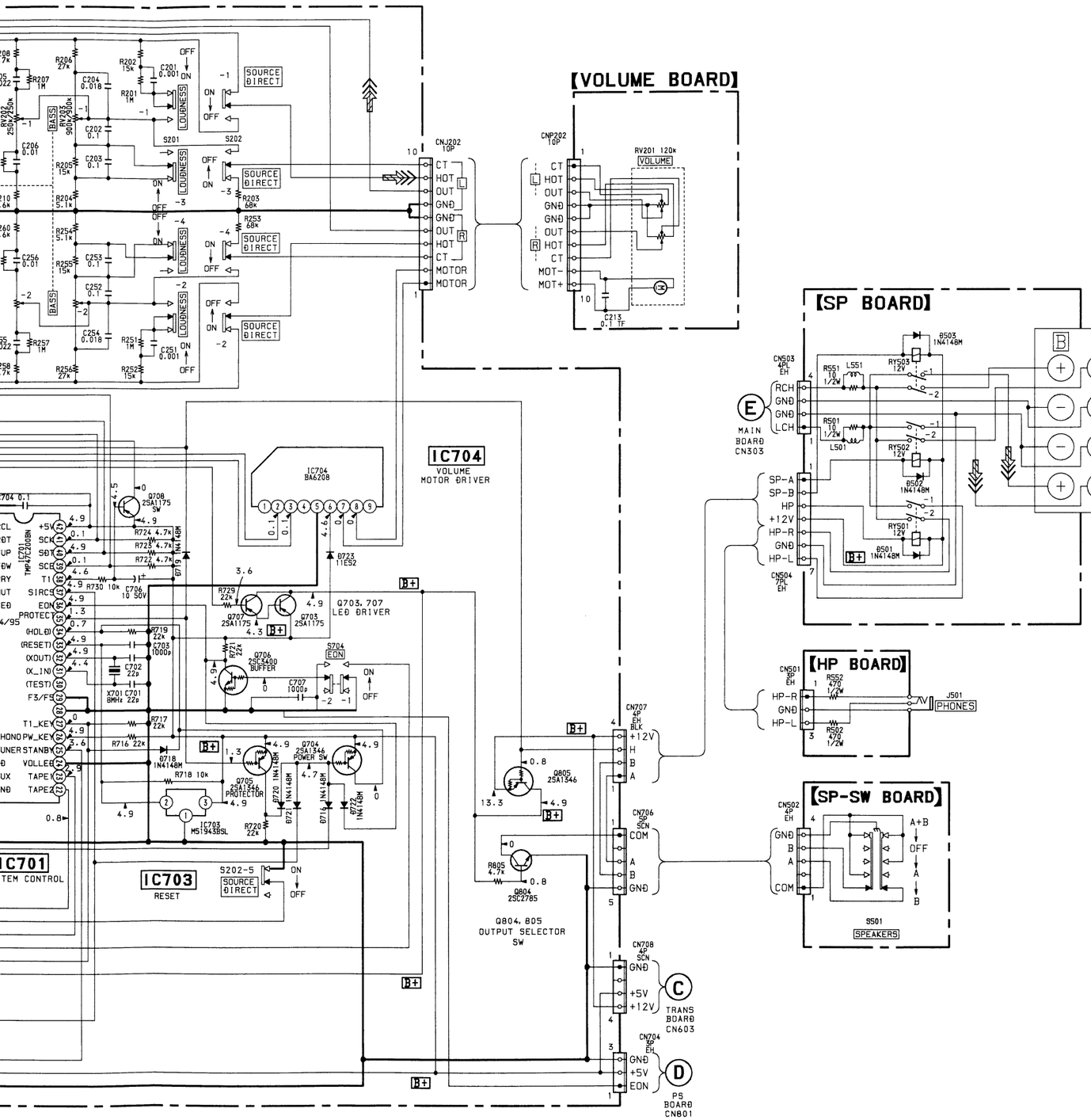
3-6. SCHEMATIC DIAGRAM — PANEL SECTION —

• See page 5 for IC Pin Function. (IC701)



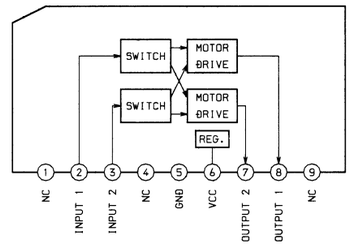
NOTE

- All c
- All r
- Volta
- Signa



•IC BLOCK DIAGRAM

IC704 BA6208



NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭ :panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ :B+ Line.
- B− :B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.

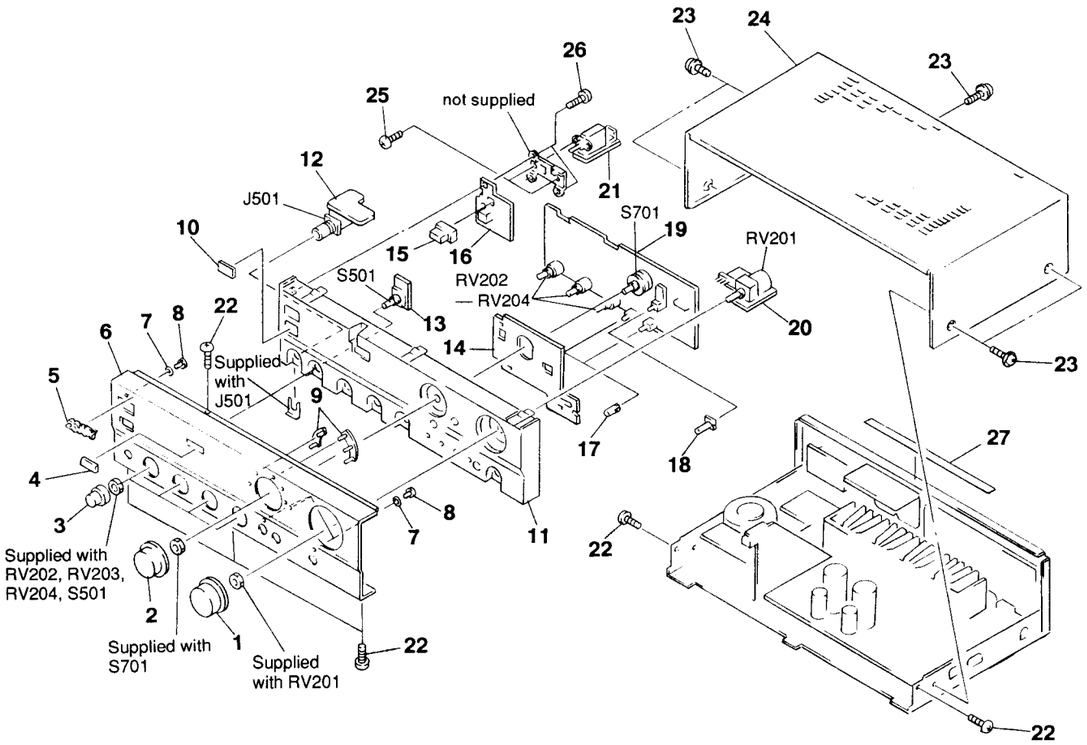
⇒ :PHONO

SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

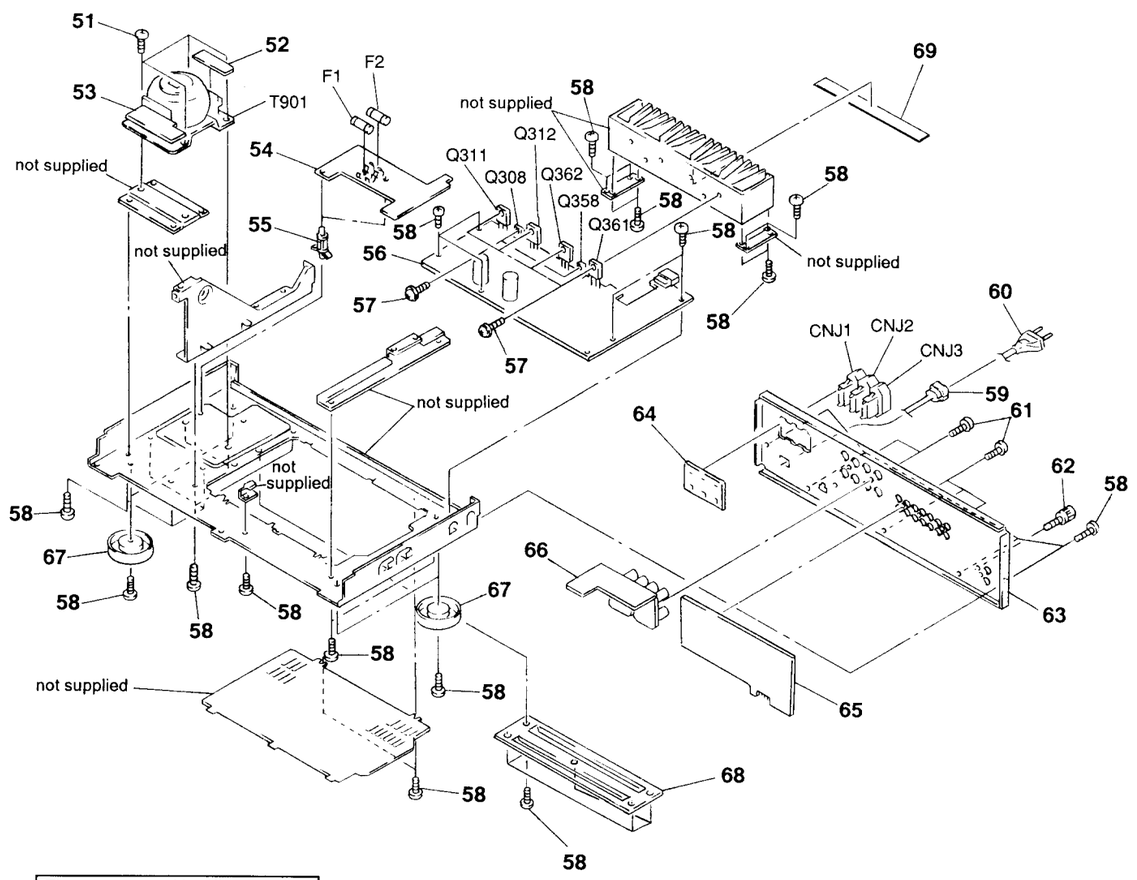
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. FRONT PANEL SECTION



Ref.No.	Part No.	Description	Remark
1	X-4944-844-1	KNOB (VOL) ASSY	
2	4-966-003-01	KNOB (SEL)	
3	4-965-996-01	KNOB (TONE)	
4	4-965-651-01	EMBLEM (MOS)	
5	4-942-568-01	EMBLEM (NO.5), SONY	
6	4-965-991-31	PANEL, FRONT	
* 7	4-927-881-01	SHEET, ADHESIVE	
8	4-938-518-01	INDICATOR (C)	
9	4-965-999-01	INDICATOR (3)	
10	4-931-911-01	FILTER	
11	4-974-890-01	BASE, PANEL	
* 12	1-656-839-11	HP BOARD	
* 13	1-656-842-11	SP-SW BOARD	
* 14	1-656-838-11	LED BOARD	
15	4-917-460-01	KNOB, POWER	
* 16	1-656-831-11	SIRCS BOARD	
17	4-965-997-01	BUTTON (S)	
18	4-966-000-01	BUTTON (L)	
* 19	A-4378-233-A	PANEL BOARD, COMPLETE	
* 20	1-656-837-11	VOLUME BOARD	
* 21	1-656-834-11	AC-SW BOARD	
22	4-967-961-01	SCREW (3X8) (SPECIAL)	
23	3-704-366-01	SCREW (CASE) (M3X8)	
24	4-929-294-71	CASE	
25	7-682-548-09	SCREW +BVTT 3X8 (S)	
26	4-969-221-01	SCREW (3X12)	
27	3-831-441-XX	FELT, PANEL	
J501	1-750-162-61	JACK (LARGE TYPE) (PHONES)	
RV201	1-223-932-11	RES, VAR, CARBON 120K/120K (VOLUME)	
RV202	1-223-934-11	RES, VAR, CARBON 250K/250K (TREBLE)	
RV203	1-223-935-11	RES, VAR, CARBON 900K/900K (BASS)	
RV204	1-223-933-11	RES, VAR, CARBON 250K/250K (BALANCE)	
S501	1-762-388-11	SWITCH, ROTARY (SPEAKERS)	
S701	1-692-967-11	SWITCH, ROTARY (INPUT SELECTOR)	

4-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
51	4-967-960-01	SCREW (4X8)	
* 52	1-656-835-11	TRANS-J BOARD	
* 53	1-656-843-11	TRANS BOARD	
* 54	1-656-841-11	PS BOARD	
* 55	3-346-265-11	HOLDER, PC BOARD	
* 56	A-4378-231-A	MAIN BOARD, COMPLETE	
57	3-905-609-11	SCREW (TRANSISTOR)	
58	4-967-961-01	SCREW (3X8) (SPECIAL)	
* 59	3-703-244-00	BUSHING (2104), CORD	
⚠60	1-575-651-21	CORD, POWER	
61	3-704-515-41	SCREW (BV/RING)	
62	4-947-010-01	SCREW, FEEDER FIXED	
* 63	4-966-005-31	PANEL, BACK	
* 64	1-656-832-11	OUTLET BOARD	
* 65	A-4378-240-A	INPUT BOARD, COMPLETE	
* 66	1-656-840-11	SP BOARD	
67	4-956-885-11	FOOT (F58175S2W)	
68	4-974-528-01	BRACKET (BO-P)	
69	3-831-441-XX	FELT, PANEL	
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠F1	1-532-203-00	FUSE (T2.0AL)	
⚠F2	1-532-286-00	FUSE (T2.5AL)	
Q308	8-729-209-15	TRANSISTOR 2SD2012	
Q311	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q312	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q358	8-729-209-15	TRANSISTOR 2SD2012	
Q361	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q362	8-729-232-46	TRANSISTOR 2SJ200-Y	
⚠T901	1-429-078-11	TRANSFORMER, POWER	

AC-SW

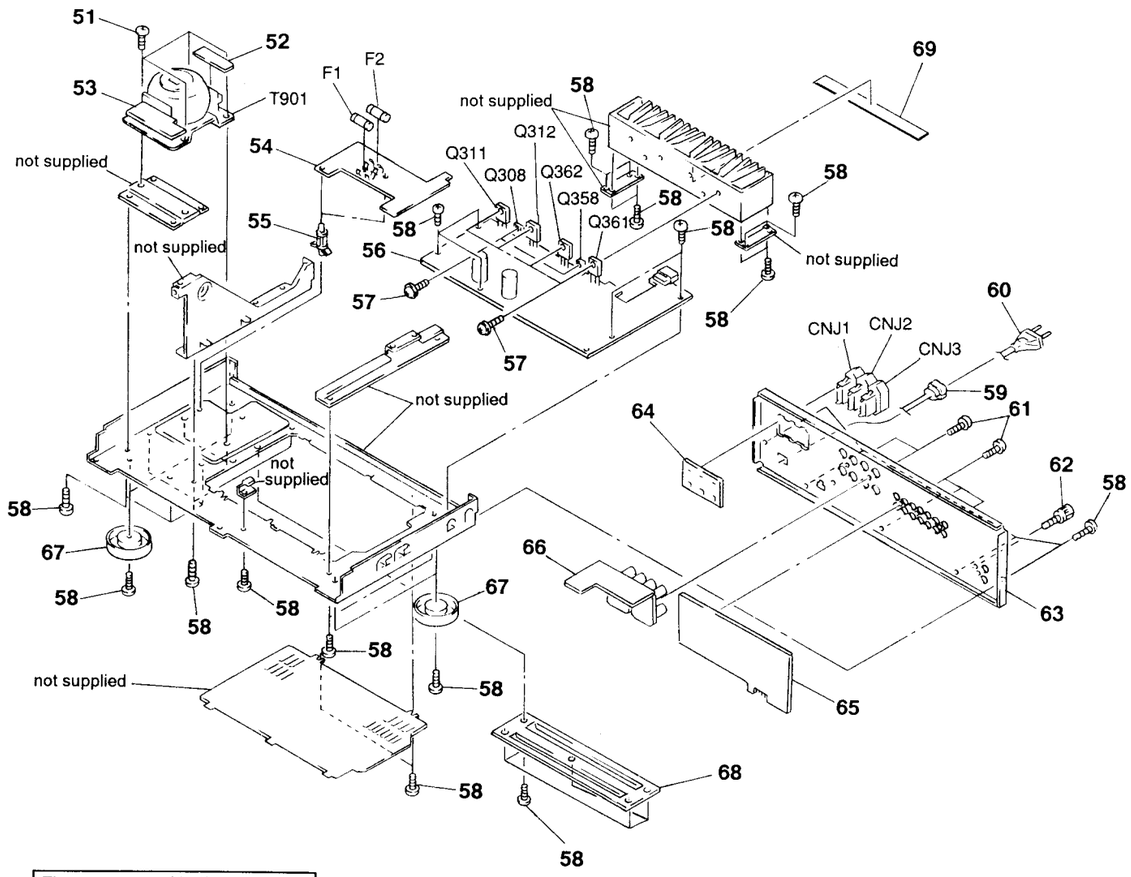
NOTE:

The compone
⚠ or dotted
critical for sa
Replace onl
specified.

When indicat
number, plea
name.

Ref. No.	Par
*	1-6
CN6	1-5
⚠S1	1-5
**********	
*	1-6
J501	1-7
R502	1-2
R552	1-2
**********	
*	A-4
C101	1-1
C103	1-1
C104	1-1
C105	1-1
C106	1-1
C107	1-1
C108	1-1
C116	1-1
C117	1-1
C118	1-1
C119	1-1
C120	1-1
C121	1-1
* CN501	1-5

4-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
51	4-967-960-01	SCREW (4X8)	
* 52	1-656-835-11	TRANS-J BOARD	
* 53	1-656-843-11	TRANS BOARD	
* 54	1-656-841-11	PS BOARD	
* 55	3-346-265-11	HOLDER, PC BOARD	
* 56	A-4378-231-A	MAIN BOARD, COMPLETE	
57	3-905-609-11	SCREW (TRANSISTOR)	
58	4-967-961-01	SCREW (3X8) (SPECIAL)	
* 59	3-703-244-00	BUSHING (2104), CORD	
⚠60	1-575-651-21	CORD, POWER	
61	3-704-515-41	SCREW (BV/RING)	
62	4-947-010-01	SCREW, FEEDER FIXED	
* 63	4-966-005-31	PANEL, BACK	
* 64	1-656-832-11	OUTLET BOARD	
* 65	A-4378-240-A	INPUT BOARD, COMPLETE	
* 66	1-656-840-11	SP BOARD	
67	4-956-885-11	FOOT (F58175S2W)	
68	4-974-528-01	BRACKET (BO-P)	
69	3-831-441-XX	FELT, PANEL	
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠F1	1-532-203-00	FUSE (T2.0AL)	
⚠F2	1-532-286-00	FUSE (T2.5AL)	
Q308	8-729-209-15	TRANSISTOR 2SD2012	
Q311	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q312	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q358	8-729-209-15	TRANSISTOR 2SD2012	
Q361	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q362	8-729-232-46	TRANSISTOR 2SJ200-Y	
⚠T901	1-429-078-11	TRANSFORMER, POWER	

AC-SW HP INPUT

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref.No.	Part No.	Description			Remark
*	1-656-834-11	AC-SW BOARD			
		**********			
		< CONNECTOR >			
CN6	1-564-321-00	PIN, CONNECTOR 2P			
		< SWITCH >			
⚠S1	1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)			
**********					
*	1-656-839-11	HP BOARD			
		********			
		< CONNECTOR >			
* CN501	1-564-506-11	PLUG, CONNECTOR 3P			
		< JACK >			
J501	1-750-162-61	JACK (LARGE TYPE) (PHONES)			
		< RESISTOR >			
R502	1-247-747-11	CARBON	470	5% 1/2W	
R552	1-247-747-11	CARBON	470	5% 1/2W	
**********					
*	A-4378-240-A	INPUT BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-282-31	CERAMIC	100PF	10% 50V	
C103	1-126-962-11	ELECT	3.3uF	20% 50V	
C104	1-124-443-00	ELECT	100uF	20% 10V	
C105	1-162-282-31	CERAMIC	100PF	10% 50V	
C106	1-130-480-00	MYLAR	0.0056uF	5% 50V	
C107	1-136-229-11	MYLAR	0.0016uF	5% 50V	
C108	1-124-916-11	ELECT	22uF	20% 63V	
C116	1-136-165-00	FILM	0.1uF	5% 50V	
C117	1-136-165-00	FILM	0.1uF	5% 50V	
C118	1-126-049-11	ELECT	22uF	20% 25V	
C119	1-126-049-11	ELECT	22uF	20% 25V	
C120	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C121	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C151	1-162-282-31	CERAMIC	100PF	10% 50V	
C153	1-126-962-11	ELECT	3.3uF	20% 50V	
C154	1-124-443-00	ELECT	100uF	20% 10V	
C155	1-162-282-31	CERAMIC	100PF	10% 50V	
C156	1-130-480-00	MYLAR	0.0056uF	5% 50V	
C157	1-136-229-11	MYLAR	0.0016uF	5% 50V	
C158	1-124-916-11	ELECT	22uF	20% 63V	
		< CONNECTOR >			
* CNP101	1-568-322-21	PLUG, CONNECTOR 10P			
		< DIODE >			
D101	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC101	8-759-805-13	IC LC7821			
IC102	8-759-636-74	IC M5218AP-22			
		< JACK >			
J101	1-573-141-21	JACK 2P (PHONO)			
* J102	1-573-142-21	JACK, PIN 4P (TUNER, CD)			
J103	1-568-978-11	JACK 6P (AUX, TAPE2/MD)			
* J104	1-573-142-21	JACK, PIN 4P (TAPE1/DAT)			
		< RESISTOR >			
R101	1-249-411-11	CARBON	330	5% 1/4W	
R102	1-249-437-11	CARBON	47K	5% 1/4W	
R104	1-247-895-00	CARBON	470K	5% 1/4W	
R105	1-247-832-11	CARBON	1.1K	5% 1/4W	
R106	1-247-897-11	CARBON	560K	5% 1/4W	
R107	1-249-437-11	CARBON	47K	5% 1/4W	
R108	1-247-895-00	CARBON	470K	5% 1/4W	
R109	1-249-417-11	CARBON	1K	5% 1/4W	F
R110	1-247-713-11	CARBON	1K	5% 1/4W	F
R111	1-247-713-11	CARBON	1K	5% 1/4W	F
R112	1-247-713-11	CARBON	1K	5% 1/4W	F
R113	1-247-713-11	CARBON	1K	5% 1/4W	F
R114	1-247-713-11	CARBON	1K	5% 1/4W	F
R115	1-247-713-11	CARBON	1K	5% 1/4W	F
R116	1-247-713-11	CARBON	1K	5% 1/4W	F
R117	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R151	1-249-411-11	CARBON	330	5% 1/4W	

Ref.No.	Part No.	Description				Remark
R152	1-249-437-11	CARBON	47K	5%	1/4W	
R154	1-247-895-00	CARBON	470K	5%	1/4W	
R155	1-247-832-11	CARBON	1.1K	5%	1/4W	
R156	1-247-897-11	CARBON	560K	5%	1/4W	
R157	1-249-437-11	CARBON	47K	5%	1/4W	
R158	1-247-895-00	CARBON	470K	5%	1/4W	
R159	1-249-417-11	CARBON	1K	5%	1/4W	F
R160	1-247-713-11	CARBON	1K	5%	1/4W	F
R161	1-247-713-11	CARBON	1K	5%	1/4W	F
R162	1-247-713-11	CARBON	1K	5%	1/4W	F
R163	1-247-713-11	CARBON	1K	5%	1/4W	F
R164	1-247-713-11	CARBON	1K	5%	1/4W	F
R165	1-247-713-11	CARBON	1K	5%	1/4W	F
R166	1-247-713-11	CARBON	1K	5%	1/4W	F
		< RELAY >				
RY101	1-515-622-11	RELAY				
**********						
*	1-656-838-11	LED BOARD				
		*********				
		< CONNECTOR >				
* CNJ701	1-691-244-11	SOCKET, CONNECTOR 10P				
		< DIODE >				
D707	8-719-303-02	DIODE SEL2510C-D (PHONO)				
D708	8-719-303-02	DIODE SEL2510C-D (TUNER)				
D709	8-719-303-02	DIODE SEL2510C-D (CD)				
D710	8-719-303-02	DIODE SEL2510C-D (AUX)				
D711	8-719-303-02	DIODE SEL2510C-D (TAPE2/MD)				
D712	8-719-301-49	DIODE SEL2810A (TAPE1/DAT, MONITOR)				
D713	8-719-301-49	DIODE SEL2810A (SOUCE DIRECT)				
D714	8-719-301-49	DIODE SEL2810A (EON)				
		< RESISTOR >				
R712	1-249-407-11	CARBON	150	5%	1/4W	F
R713	1-249-409-11	CARBON	220	5%	1/4W	F
R726	1-249-409-11	CARBON	220	5%	1/4W	F
R727	1-249-409-11	CARBON	220	5%	1/4W	F
		< SWITCH >				
S703	1-554-303-21	SWITCH, TACTILE (EON)				
**********						

Ref.No.	Part No.	Description			Remark
*	A-4378-231-A	MAIN BOARD, COMPLETE			
		**********			
	8-729-119-79	TRANSISTOR	2SC2785-FEK		
	8-729-119-77	TRANSISTOR	2SA1175-FEK		
	8-729-620-05	TRANSISTOR	2SC2603-EF		
	8-729-119-76	TRANSISTOR	2SA1175-HFE		
		< CAPACITOR >			
C210	1-136-165-00	FILM	0.1uF	5%	50V
C301	1-126-163-11	ELECT	4.7uF	20%	50V
C302	1-110-335-11	MYLAR	100PF	5%	50V
C303	1-164-062-11	CERAMIC	47PF	5%	50V
C304	1-124-995-11	ELECT	220uF	20%	10V
C305	1-102-943-00	CERAMIC	6PF	+-0.5PF	50V
C306	1-110-339-11	MYLAR	220PF	5%	50V
C307	1-126-022-11	ELECT	47uF	20%	16V
C310	1-136-159-00	FILM	0.033uF	5%	50V
C312	1-126-025-11	ELECT	330uF	20%	10V
C351	1-126-163-11	ELECT	4.7uF	20%	50V
C352	1-110-335-11	MYLAR	100PF	5%	50V
C353	1-164-062-11	CERAMIC	47PF	5%	50V
C354	1-124-995-11	ELECT	220uF	20%	10V
C355	1-102-943-00	CERAMIC	6PF	+-0.5PF	50V
C356	1-110-339-11	MYLAR	220PF	5%	50V
C357	1-126-022-11	ELECT	47uF	20%	16V
C360	1-136-159-00	FILM	0.033uF	5%	50V
C362	1-126-025-11	ELECT	330uF	20%	10V
C401	1-130-471-00	MYLAR	0.001uF	5%	50V
C402	1-124-478-11	ELECT	100uF	20%	25V
C403	1-136-153-00	FILM	0.01uF	5%	50V
C404	1-124-907-11	ELECT	10uF	20%	50V
C405	1-124-477-11	ELECT	47uF	20%	25V
C603	1-109-866-11	ELECT(SOLID)	6800uF	20%	56V
C604	1-109-866-11	ELECT(SOLID)	6800uF	20%	56V
C605	1-126-067-11	ELECT(SOLID)	1000uF	20%	56V
C606	1-126-067-11	ELECT(SOLID)	1000uF	20%	56V
C608	1-124-910-11	ELECT	47uF	20%	50V
C609	1-124-910-11	ELECT	47uF	20%	50V
C610	1-124-907-11	ELECT	10uF	20%	50V
C611	1-124-907-11	ELECT	10uF	20%	50V
C612	1-104-665-11	ELECT	100uF	20%	16V
C613	1-104-665-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN301	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
CN302	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
CN303	1-691-766-21	PLUG (MICRO CONNECTOR) 4P			
CN602	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNJ101	1-568-321-11	SOCKET, CONNECTOR 10P			

MAIN

Ref. No.	Part No.	Description		Remark
		< DIODE >		
D301	8-719-933-39	DIODE	HZS6C1L	
D302	8-719-900-19	DIODE	SLR34UW5	
D307	8-719-987-63	DIODE	1N4148M	
D308	8-719-987-63	DIODE	1N4148M	
D351	8-719-933-39	DIODE	HZS6C1L	
D352	8-719-900-19	DIODE	SLR34UW5	
D357	8-719-987-63	DIODE	1N4148M	
D358	8-719-987-63	DIODE	1N4148M	
D602	8-719-024-99	DIODE	11ES2-NTA2B	
D603	8-719-024-99	DIODE	11ES2-NTA2B	
D604	8-719-933-88	DIODE	HZS16-2L	
D605	8-719-933-88	DIODE	HZS16-2L	
		< IC >		
IC401	8-759-111-68	IC	uPC1237HA	
		< COIL >		
* L601	1-428-203-11	COIL, AIR-CORE		
* L602	1-428-203-11	COIL, AIR-CORE		
		< TRANSISTOR >		
Q201	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q251	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q301	8-729-620-18	TRANSISTOR	2SA979-FG	
Q302	8-729-119-79	TRANSISTOR	2SC2785-FEK	
Q303	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q304	8-729-201-56	TRANSISTOR	2SK246-GR2	
Q305	8-729-119-79	TRANSISTOR	2SC2785-FEK	
Q306	8-729-021-73	TRANSISTOR	2SC2229-OY-TPE6	
Q307	8-729-021-74	TRANSISTOR	2SA949-OY-TPE6	
Q308	8-729-209-15	TRANSISTOR	2SD2012	
Q309	8-729-017-06	TRANSISTOR	2SC4793	
Q310	8-729-017-05	TRANSISTOR	2SA1837	
Q311	8-729-232-45	TRANSISTOR	2SK1529-Y	
Q312	8-729-232-46	TRANSISTOR	2SJ200-Y	
Q313	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q351	8-729-620-18	TRANSISTOR	2SA979-FG	
Q352	8-729-119-79	TRANSISTOR	2SC2785-FEK	
Q353	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q354	8-729-201-56	TRANSISTOR	2SK246-GR2	
Q355	8-729-119-79	TRANSISTOR	2SC2785-FEK	
Q356	8-729-021-73	TRANSISTOR	2SC2229-OY-TPE6	
Q357	8-729-021-74	TRANSISTOR	2SA949-OY-TPE6	
Q358	8-729-209-15	TRANSISTOR	2SD2012	
Q359	8-729-017-06	TRANSISTOR	2SC4793	
Q360	8-729-017-05	TRANSISTOR	2SA1837	
Q361	8-729-232-45	TRANSISTOR	2SK1529-Y	
Q362	8-729-232-46	TRANSISTOR	2SJ200-Y	
Q363	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q601	8-729-119-78	TRANSISTOR	2SC403SP-51	
Q602	8-729-201-53	TRANSISTOR	2SA1015-GR	
		< RESISTOR >		
R215	1-247-713-11	CARBON	1K 5% 1/4W F	
R216	1-247-852-11	CARBON	7.5K 5% 1/4W	
R265	1-247-713-11	CARBON	1K 5% 1/4W F	
R266	1-247-852-11	CARBON	7.5K 5% 1/4W	
R301	1-249-469-11	CARBON	100K 5% 1/4W	
R302	1-247-749-11	CARBON	560 5% 1/2W F	
R303	1-249-496-11	CARBON	100K 5% 1/3W	
R304	1-247-704-11	CARBON	220 5% 1/4W F	
⚠R305	1-249-409-11	CARBON	220 5% 1/4W F	
R306	1-247-128-00	CARBON	750 5% 1/4W	
R307	1-247-717-11	CARBON	2.2K 5% 1/4W F	
R308	1-247-704-11	CARBON	220 5% 1/4W F	
R309	1-249-586-11	CARBON	27K 5% 1/4W	
R310	1-249-462-11	CARBON	22K 5% 1/4W	
R311	1-247-725-11	CARBON	10K 5% 1/4W F	
R312	1-249-497-11	CARBON	33K 5% 1/4W	
⚠R313	1-249-409-11	CARBON	220 5% 1/4W F	
⚠R314	1-249-397-11	CARBON	22 5% 1/4W F	
R315	1-247-711-11	CARBON	680 5% 1/4W F	
R316	1-247-706-11	CARBON	330 5% 1/4W F	
⚠R317	1-249-393-11	CARBON	10 5% 1/4W F	
⚠R318	1-249-393-11	CARBON	10 5% 1/4W F	
⚠R319	1-247-745-11	CARBON	330 5% 1/2W F	
⚠R320	1-212-881-11	FUSIBLE	100 5% 1/4W F	
⚠R321	1-212-881-11	FUSIBLE	100 5% 1/4W F	
R322	1-217-151-00	METAL PLATE	0.22 2W	
R323	1-217-151-00	METAL PLATE	0.22 2W	
⚠R324	1-249-425-81	CARBON	4.7K 5% 1/4W F	
R325	1-249-431-11	CARBON	15K 5% 1/4W	
R326	1-247-727-11	CARBON	10 5% 1/2W	
R327	1-247-887-00	CARBON	220K 5% 1/4W	
R328	1-249-428-11	CARBON	8.2K 5% 1/4W F	
R351	1-249-469-11	CARBON	100K 5% 1/4W	
R352	1-247-749-11	CARBON	560 5% 1/2W F	
R353	1-249-496-11	CARBON	100K 5% 1/3W	
R354	1-247-704-11	CARBON	220 5% 1/4W F	
⚠R355	1-249-409-11	CARBON	220 5% 1/4W F	
R356	1-247-128-00	CARBON	750 5% 1/4W	
R357	1-247-717-11	CARBON	2.2K 5% 1/4W F	
R358	1-247-704-11	CARBON	220 5% 1/4W F	
R359	1-249-586-11	CARBON	27K 5% 1/4W	
R360	1-249-462-11	CARBON	22K 5% 1/4W	
R361	1-247-725-11	CARBON	10K 5% 1/4W F	
R362	1-249-497-11	CARBON	33K 5% 1/4W	
⚠R363	1-249-409-11	CARBON	220 5% 1/4W F	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description				Remark
⚠R364	1-249-397-11	CARBON	22	5%	1/4W	F
R365	1-247-711-11	CARBON	680	5%	1/4W	F
R366	1-247-706-11	CARBON	330	5%	1/4W	F
⚠R367	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R368	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R369	1-247-745-11	CARBON	330	5%	1/2W	F
⚠R370	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R371	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R372	1-217-151-00	METAL PLATE	0.22		2W	
R373	1-217-151-00	METAL PLATE	0.22		2W	
⚠R374	1-249-425-81	CARBON	4.7K	5%	1/4W	F
R375	1-249-431-11	CARBON	15K	5%	1/4W	
R376	1-247-727-11	CARBON	10	5%	1/2W	
R377	1-247-887-00	CARBON	220K	5%	1/4W	
R378	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R401	1-249-429-11	CARBON	10K	5%	1/4W	
R402	1-247-887-00	CARBON	220K	5%	1/4W	
R403	1-247-881-00	CARBON	120K	5%	1/4W	
R404	1-249-432-11	CARBON	18K	5%	1/4W	
R601	1-247-754-11	CARBON	1.5K	5%	1/2W	
R602	1-247-754-11	CARBON	1.5K	5%	1/2W	
R605	1-249-429-11	CARBON	10K	5%	1/4W	
R606	1-249-429-11	CARBON	10K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-241-761-11	RES, ADJ, CARBON 1K				
RV351	1-241-761-11	RES, ADJ, CARBON 1K				
		< THERMISTOR >				
THP601	1-806-882-11	THERMISTOR, POSITIVE 2.2				
THP602	1-806-882-11	THERMISTOR, POSITIVE 2.2				
		< TEST PIN >				
* TP301	1-564-506-11	PLUG, CONNECTOR 3P				
* TP351	1-564-506-11	PLUG, CONNECTOR 3P				

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*	1-656-832-11	OUTLET BOARD	
		**********	
		< CONNECTOR >	
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	

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Ref. No.	Part No.	Description			Remark
*	A-4378-233-A	PANEL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C201	1-130-471-00	MYLAR	0.001uF	5%	50V
C202	1-136-165-00	FILM	0.1uF	5%	50V
C203	1-136-165-00	FILM	0.1uF	5%	50V
C204	1-136-156-00	FILM	0.018uF	5%	50V
C205	1-130-475-00	MYLAR	0.0022uF	5%	50V
C206	1-136-153-00	FILM	0.01uF	5%	50V
C211	1-124-907-11	ELECT	10uF	20%	50V
C212	1-124-907-11	ELECT	10uF	20%	50V
C251	1-130-471-00	MYLAR	0.001uF	5%	50V
C252	1-136-165-00	FILM	0.1uF	5%	50V
C253	1-136-165-00	FILM	0.1uF	5%	50V
C254	1-136-156-00	FILM	0.018uF	5%	50V
C255	1-130-475-00	MYLAR	0.0022uF	5%	50V
C256	1-136-153-00	FILM	0.01uF	5%	50V
C701	1-162-207-31	CERAMIC	22PF	5%	50V
C702	1-162-207-31	CERAMIC	22PF	5%	50V
C703	1-162-294-31	CERAMIC	0.001uF	10%	50V
C704	1-164-159-11	CERAMIC	0.1uF		50V
C705	1-164-159-11	CERAMIC	0.1uF		50V
C706	1-124-907-11	ELECT	10uF	20%	50V
C707	1-162-294-31	CERAMIC	0.001uF	10%	50V
C708	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
* CN704	1-564-506-11	PLUG, CONNECTOR 3P			
* CN707	1-564-507-11	PLUG, CONNECTOR 4P			
* CNJ202	1-568-451-11	HOUSING, CONNECTOR (PC BOARD) 10P			
CNP701	1-766-257-11	PIN, CONNECTOR (PC BOARD) 10P			
		< DIODE >			
D701	8-719-987-63	DIODE 1N4148M			
D702	8-719-987-63	DIODE 1N4148M			
D703	8-719-987-63	DIODE 1N4148M			
D704	8-719-987-63	DIODE 1N4148M			
D705	8-719-987-63	DIODE 1N4148M			
D706	8-719-987-63	DIODE 1N4148M			
D716	8-719-987-63	DIODE 1N4148M			
D718	8-719-987-63	DIODE 1N4148M			
D719	8-719-987-63	DIODE 1N4148M			
D720	8-719-987-63	DIODE 1N4148M			
D721	8-719-987-63	DIODE 1N4148M			
D722	8-719-987-63	DIODE 1N4148M			
D723	8-719-024-99	DIODE 11ES2-NTA2B			
		< IC >			
IC701	8-759-343-64	IC TMP47C200BN			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PANEL PS

Ref. No.	Part No.	Description				Remark
IC702	8-759-188-67	IC X24C01P-S				
IC703	8-759-635-63	IC M51943BSL				
IC704	8-759-962-08	IC BA6208				
		< TRANSISTOR >				
Q202	8-729-119-77	TRANSISTOR 2SA1175-FEK				
Q702	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q703	8-729-119-77	TRANSISTOR 2SA1175-FEK				
Q704	8-729-900-63	TRANSISTOR DTA124ES				
Q705	8-729-900-63	TRANSISTOR DTA124ES				
Q706	8-729-900-36	TRANSISTOR DTC124ES				
Q707	8-729-119-77	TRANSISTOR 2SA1175-FEK				
Q708	8-729-119-77	TRANSISTOR 2SA1175-FEK				
Q804	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q805	8-729-900-63	TRANSISTOR DTA124ES				
		< RESISTOR >				
R201	1-259-500-11	CARBON	1M	5%	1/6W	
R202	1-259-456-11	CARBON	15K	5%	1/6W	
R203	1-259-472-11	CARBON	68K	5%	1/6W	
R204	1-259-445-11	CARBON	5.1K	5%	1/6W	
R205	1-259-456-11	CARBON	15K	5%	1/6W	
R206	1-259-462-11	CARBON	27K	5%	1/6W	
R207	1-259-500-11	CARBON	1M	5%	1/6W	
R208	1-259-444-11	CARBON	4.7K	5%	1/6W	
R209	1-259-500-11	CARBON	1M	5%	1/6W	
R210	1-259-433-11	CARBON	1.6K	5%	1/6W	
R217	1-249-441-11	CARBON	100K	5%	1/4W	
R218	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R219	1-249-431-11	CARBON	15K	5%	1/4W	
R220	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R221	1-249-413-11	CARBON	470	5%	1/4W	F
R251	1-259-500-11	CARBON	1M	5%	1/6W	
R252	1-259-456-11	CARBON	15K	5%	1/6W	
R253	1-259-472-11	CARBON	68K	5%	1/6W	
R254	1-259-445-11	CARBON	5.1K	5%	1/6W	
R255	1-259-456-11	CARBON	15K	5%	1/6W	
R256	1-259-462-11	CARBON	27K	5%	1/6W	
R257	1-259-500-11	CARBON	1M	5%	1/6W	
R258	1-259-444-11	CARBON	4.7K	5%	1/6W	
R259	1-259-500-11	CARBON	1M	5%	1/6W	
R260	1-259-433-11	CARBON	1.6K	5%	1/6W	
R701	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-429-11	CARBON	10K	5%	1/4W	
R703	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R704	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R705	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R706	1-249-433-11	CARBON	22K	5%	1/4W	
R707	1-249-433-11	CARBON	22K	5%	1/4W	
R708	1-249-433-11	CARBON	22K	5%	1/4W	
R709	1-249-433-11	CARBON	22K	5%	1/4W	
R710	1-249-433-11	CARBON	22K	5%	1/4W	
R711	1-249-433-11	CARBON	22K	5%	1/4W	
R715	1-247-818-11	CARBON	300	5%	1/4W	
R716	1-249-433-11	CARBON	22K	5%	1/4W	
R717	1-249-433-11	CARBON	22K	5%	1/4W	
R718	1-249-429-11	CARBON	10K	5%	1/4W	
R719	1-249-433-11	CARBON	22K	5%	1/4W	
R720	1-249-433-11	CARBON	22K	5%	1/4W	
R721	1-249-433-11	CARBON	22K	5%	1/4W	
R722	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R723	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R724	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R725	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R728	1-249-433-11	CARBON	22K	5%	1/4W	
R729	1-249-433-11	CARBON	22K	5%	1/4W	
R730	1-249-429-11	CARBON	10K	5%	1/4W	
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV202	1-223-934-11	RES, VAR, CARBON 250K/250K (TREBLE)				
RV203	1-223-935-11	RES, VAR, CARBON 900K/900K (BASS)				
RV204	1-223-933-11	RES, VAR, CARBON 250K/250K (BALANCE)				
		< SWITCH >				
S201	1-762-387-11	SWITCH, PUSH (LOUDNESS)				
S202	1-572-642-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)				
S701	1-692-967-11	SWITCH, ROTARY (INPUT SELECTOR)				
S704	1-571-112-21	SWITCH, PUSH (1 KEY) (EON)				
		< VIBRATOR >				
X701	1-579-223-11	OSCILLATOR, CERAMIC (8MHz)				
**********						
*	1-656-841-11	PS BOARD				
		********				
		< CAPACITOR >				
C806	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CN1	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P				
* CN2	1-564-321-21	PIN, CONNECTOR 2P				
CN3	1-580-629-11	PIN, CONNECTOR 2P				
CN5	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P				
		< FUSE >				
⚠F1	1-532-203-00	FUSE (T2.0AL)				
⚠F2	1-532-286-00	FUSE (T2.5AL)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN801	1-564-506-11	PLUG, CONNECTOR 3P	
CNJ802	1-566-212-11	PIN, CONNECTOR 3P (EON CONTROL)	
		< FUSE HOLDER >	
FH1	1-533-233-11	HOLDER, FUSE	
FH2	1-533-233-11	HOLDER, FUSE	
FH3	1-533-233-11	HOLDER, FUSE	
FH4	1-533-233-11	HOLDER, FUSE	
**********			
*	1-656-831-11	SIRCS BOARD	
		**********	
		< CONNECTOR >	
CN703	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
		< DIODE >	
D715	8-719-313-43	DIODE SEL6210S-TH10 (PROTECTION)	
		< IC >	
IC705	8-749-923-43	IC GP1U57XB	
**********			
*	1-656-840-11	SP BOARD	
		********	
		< CONNECTOR >	
* CN503	1-564-519-11	PLUG, CONNECTOR 4P	
* CN504	1-564-522-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D501	8-719-987-63	DIODE 1N4148M	
D502	8-719-987-63	DIODE 1N4148M	
D503	8-719-987-63	DIODE 1N4148M	
		< COIL >	
L501	1-428-133-31	COIL, AIR-CORE	
L551	1-428-133-31	COIL, AIR-CORE	
		< RESISTOR >	
R501	1-247-727-11	CARBON 10 5% 1/2W	
R551	1-247-727-11	CARBON 10 5% 1/2W	
		< RELAY >	
RY501	1-515-921-11	RELAY (12V)	
RY502	1-515-921-11	RELAY (12V)	
RY503	1-515-921-11	RELAY (12V)	

Ref. No.	Part No.	Description	Remark
		< TERMINAL >	
* TM501	1-537-762-11	TERMINAL BOARD (SP) (SPEAKER)	
**********			
*	1-656-842-11	SP-SW BOARD	
		**********	
		< CONNECTOR >	
CN502	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
		< SWITCH >	
S501	1-762-388-11	SWITCH, ROTARY (SPEAKERS)	
**********			
*	1-656-843-11	TRANS BOARD	
		**********	
		< CAPACITOR >	
C601	1-106-383-00	FILM 0.047uF 5% 200V	
C602	1-106-383-00	FILM 0.047uF 5% 200V	
C801	1-136-153-00	FILM 0.01uF 5% 50V	
C802	1-126-942-61	ELECT 1000uF 20% 25V	
C803	1-104-664-11	ELECT 47uF 20% 16V	
C804	1-126-942-61	ELECT 1000uF 20% 25V	
		< CONNECTOR >	
* CN601	1-564-519-11	PLUG, CONNECTOR 4P	
* CN603	1-564-518-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D401	8-719-024-99	DIODE 11ES2-NTA2B	
D601	8-719-302-38	DIODE RBV-602-01	
D801	8-719-024-99	DIODE 11ES2-NTA2B	
D802	8-719-024-99	DIODE 11ES2-NTA2B	
D803	8-719-024-99	DIODE 11ES2-NTA2B	
D804	8-719-024-99	DIODE 11ES2-NTA2B	
		< IC >	
IC801	8-759-231-53	IC TA7805S	
		< RESISTOR >	
R408	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R806	1-249-447-11	CARBON 1 5% 1/4W	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TRANS-J | VOLUME

Ref.No.	Part No.	Description	Remark
*	1-656-835-11	TRANS-J BOARD	
		**********	
		**********	
*	1-656-837-11	VOLUME BOARD	
		**********	
		< CAPACITOR >	
C213	1-136-165-00	FILM 0.1uF 5% 50V	
		< CONNECTOR >	
* CNP202	1-568-455-11	PIN, CONNECTOR (PC BOARD) 10P	
		< VARIABLE RESISTOR >	
RV201	1-223-932-11	RES, VAR, CARBON 120K/120K (VOLUME)	
		**********	
		MISCELLANEOUS	
		**********	
⚠60	1-575-651-21	CORD, POWER	
⚠CNJ1	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ2	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNJ3	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠F1	1-532-203-00	FUSE (T2.0AL)	
⚠F2	1-532-286-00	FUSE (T2.5AL)	
J501	1-750-162-61	JACK (LARGE TYPE) (PHONES)	
Q308	8-729-209-15	TRANSISTOR 2SD2012	
Q311	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q312	8-729-232-46	TRANSISTOR 2SJ200-Y	
Q358	8-729-209-15	TRANSISTOR 2SD2012	
Q361	8-729-232-45	TRANSISTOR 2SK1529-Y	
Q362	8-729-232-46	TRANSISTOR 2SJ200-Y	
RV201	1-223-932-11	RES, VAR, CARBON 120K/120K (VOLUME)	
RV202	1-223-934-11	RES, VAR, CARBON 250K/250K (TREBLE)	
RV203	1-223-935-11	RES, VAR, CARBON 900K/900K (BASS)	
RV204	1-223-933-11	RES, VAR, CARBON 250K/250K (BALANCE)	
S501	1-762-388-11	SWITCH, ROTARY (SPEAKERS)	
S701	1-692-967-11	SWITCH, ROTARY (INPUT SELECTOR)	
⚠T901	1-429-078-11	TRANSFORMER, POWER	

Ref.No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-107-11	REMOTE COMMANDER (RM-S312)	
	3-798-913-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP)	
	3-798-913-21	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	
	3-798-913-31	MANUAL, INSTRUCTION (GERMAN) (G)	
	4-941-762-11	COVER (MLY), BATTERY (for RM-S312)	
*	4-967-239-01	CUSHION	
*	4-977-072-01	INDIVIDUAL CARTON	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-960-254-11

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